

Applicant: William R. Bennett et al.  
Application No.: 09/804,012  
Filing Date: March 12, 2001  
Page 2

### CLAIM AMENDMENTS

1. (previously presented) An anode cup for an electrochemical cell, comprising:
  - a closed upper end;
  - an open lower end with a terminal edge;
  - a side wall extending between the upper and lower ends and comprising a step, an upper side wall above the step and a lower side wall below the step;
  - a maximum upper external diameter;
  - an internal cup diameter measured at the open lower end; and
  - a lower external diameter; wherein
    - said internal cup diameter is larger than said maximum upper external cup diameter;
    - a ratio of said maximum upper external diameter to said lower external diameter is greater than or equal to about 0.86; and
    - a ratio of a cup height from the terminal edge to an uppermost part of the step to a cup height from the terminal edge to a lowermost part of the step is not greater than about 2.19.
2. (previously presented) The anode cup of claim 1, said anode cup comprising:
  - a first vertical height from said open lower end to a first point, where the substantially vertical side wall section blends into a corner radius thereby joining the side wall with said closed upper end; and
  - a second vertical height from said open lower end to a second point, where the substantially vertical wall section blends into a radius thereby joining the substantially vertical wall section with the step;

wherein the difference of said first vertical height minus said second vertical height is greater than zero.
3. (original) The anode cup of claim 2, wherein said first vertical height is at least two times said second vertical height.
4. (original) The anode cup of claim 1, wherein a total height of said cup is at least 0.178 inch.
5. (cancelled)

Applicant: William R. Bennett et al.  
Application No.: 09/804,012  
Filing Date: March 12, 2001  
Page 3

6. (cancelled)
7. (cancelled)
8. (cancelled)
9. (cancelled)
10. (cancelled)
11. (cancelled)
12. (previously presented) An anode cup and gasket assembly for an electrochemical cell, comprising:  
an anode cup according to claim 1; and  
a gasket surrounding the open end of said cup, wherein said gasket comprises an interior gasket portion disposed radially inward from the interior surface of said cup side wall, the interior gasket portion defining an inner gasket diameter, and the external cup diameter exceeding the inner gasket diameter.
13. (original) The assembly of claim 12, wherein the interior gasket portion comprises a gasket foot defining said inner gasket diameter.
14. (original) The assembly of claim 13, wherein the interior gasket portion further comprises at least one projection extending radially inward from the gasket foot, said projection defining said inner gasket diameter.
15. (previously presented) The assembly of claim 12, wherein:  
the side wall further comprises a step defined by a first radius, toward the lower end, and a second radius, toward the upper end;  
the anode cup comprises a rounded corner, having a radius, where the upper end and side wall meet; and

Applicant: William R. Bennett et al.  
Application No.: 09/804,012  
Filing Date: March 12, 2001  
Page 4

the side wall is substantially vertical between the point where the cup corner radius blends into the cup side wall and the point where the second radius blends into the cup side wall.

16. (previously presented) The assembly of claim 15, wherein said anode cup further comprises a first vertical height, measured from said lower end to a point where the cup corner radius blends into the cup side wall, and a second vertical height, measured from said lower end to a point where the second radius blends into the cup side wall, and wherein the difference of the first vertical height minus the second vertical height is greater than zero.

17. (original) The assembly of claim 16, wherein the first vertical height is at least two times the second vertical height.

18. (previously presented) An electrochemical cell comprising:

an anode cup according to claim 1;  
a cathode can having an upper end and a lower closed end and side wall extending between the upper and lower can ends said can side wall formed into a cathode can closing radius at a shoulder area of the cell; and

a gasket disposed between the anode cup and the cathode can;  
wherein the ratio of a total cell height, measured from a bottom surface of said lower can end to a top surface of said upper cup end, to a cathode can height, measured from a bottom surface of said lower can end to a top edge of said can, is greater than 1.35.

19. (original) The cell of claim 18, wherein the ratio of a total cell height to a can height is greater than 1.5.

20. (original) The cell of claim 19, wherein the ratio of a total cell height to a can height is greater than 1.7.

21. (original) The cell of claim 20, wherein the ratio of a total cell height to a can height is greater than 1.9.

Applicant: William R. Bennett et al.  
Application No.: 09/804,012  
Filing Date: March 12, 2001  
Page 5

22. (original) The cell of claim 18, wherein the cell is a button cell, having a total cell height, measured from a bottom surface of said lower can end to a top surface of said upper cup end, that is not larger than the maximum outer diameter of said can.

23. (original) The cell of claim 22, wherein the button cell is an air depolarized alkaline cell.

24. (previously presented) The cell of claim 22, wherein the total cell height minus the cathode can height is greater than or equal to about 0.04 inch.

25. (original) The cell of claim 24, wherein the total cell height minus the cathode can height is greater than or equal to about 0.06 inch.

26. (original) The cell of claim 24, wherein the total cell height minus the cathode can height is greater than or equal to about 0.08 inch.

27. (original) The cell of claim 24, wherein the total cell height minus the cathode can height is greater than or equal to 0.10 inch.

28. (cancelled)

29. (previously presented) An electrochemical cell comprising:  
an anode cup comprising a closed upper end, an open bottom end with a terminal edge and a side wall extending between the upper and lower ends of the cup;

a cathode can comprising a closed lower end, an upper end and a side wall extending between the upper and lower ends of the cup; and

a gasket disposed and providing a seal between the anode cup and the can;  
wherein:

the anode cup comprises a rounded corner where the closed cup end meets the side wall, and the rounded corner comprises a corner radius where the corner blends with the can wall;

the anode cup side wall comprises a step between the upper and lower ends of the cup, the step defined by a first step radius toward the lower end of the cup and a second step radius toward the upper end of the cup;

Applicant: William R. Bennett et al.  
Application No.: 09/804,012  
Filing Date: March 12, 2001  
Page 6

the anode cup side wall comprises a maximum upper external diameter between the second step radius and the corner radius, a lower external diameter below the first step radius and an internal diameter at the open end of the cup;

the anode cup comprises a height from the terminal edge of the cup to the bottom of the first step radius and a height from the terminal edge of the cup to the top of the second step radius;

the internal diameter is greater than the maximum upper external diameter, a ratio of the maximum upper diameter to the lower external diameter is greater than or equal to about 0.86 and a ratio of the height to the top of the second step radius of the cup to the height to the bottom of the first step radius of the cup is not greater than about 2.19.